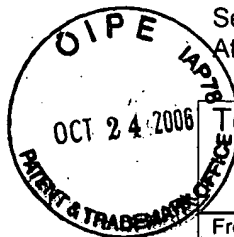


Subject: Request for Certification of correction  
 PATENT NO US 7,064,358 B2  
 ISSUED Jun. 20, 2006  
 Serial No. 10/743,596  
 Attorney Docket: CS03-036

Page 1

file: cs03-036-request-CertCor-2006-10-19.doc



To: Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450											
From:	<table border="1"> <tr> <td>William J. Stoffel</td> <td>1735 Market St - Ste A455</td> </tr> <tr> <td>Reg no. 39,390</td> <td>Philadelphia, PA 19103-7502 USA</td> </tr> <tr> <td>Customer no. 30,402</td> <td></td> </tr> <tr> <td></td> <td>Work 215-670-2455</td> </tr> <tr> <td></td> <td>Fax 267-200-0730</td> </tr> </table>	William J. Stoffel	1735 Market St - Ste A455	Reg no. 39,390	Philadelphia, PA 19103-7502 USA	Customer no. 30,402			Work 215-670-2455		Fax 267-200-0730
William J. Stoffel	1735 Market St - Ste A455										
Reg no. 39,390	Philadelphia, PA 19103-7502 USA										
Customer no. 30,402											
	Work 215-670-2455										
	Fax 267-200-0730										

Subject:	Request for Certification of correction
PATENT NO	US 7,064,358 B2

5 Subject: Request for Certification of correction  
 PATENT NO US 7,064,358 B2  
 ISSUED Jun. 20, 2006  
 Serial No. 10/743,596  
 Attorney Docket: CS03-036

**Certificate**  
**OCT 27 2006**  
**of Correction**

10 File date: Dec. 22, 2003

Inventor: Manna, Indrajit et al.

Title : TRIGGERED BACK-TO-BACK DIODES FOR ESD PROTECTION IN TRIPLE-WELL CMOS PROCESS

## 15 REQUEST FOR CERTIFICATION OF CORRECTION

Dear Sir:

Applicant requests a certificate of correction for the above mentioned patent.

CERTIFICATE OF MAILING OR FACSIMILE TRANSMISSION	
I hereby certify that this correspondence is being : <input type="checkbox"/> FAXED to the central facsimile number of patent and trademark office at the following number <b>(571) 273-8300</b> or <input checked="" type="checkbox"/> deposited with the United States Postal Service as first class mail in an envelope addressed to: Attn: Certificate of Correction branch, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450; on the date below.	
/William J. Stoffel REG # 39,390/ William J. Stoffel date October <b>20</b> , 2006 Customer No. 30402 WJS 10/29/06	

Subject: Request for Certification of correction  
PATENT NO US 7,064,358 B2  
ISSUED Jun. 20, 2006  
Serial No. 10/743,596  
Attorney Docket: CS03-036

Page 2

file: cs03-036-request-CertCor-2006-10-19.doc

-----  
**Dear Madam and Sir:**

- **The above patent contains significant errors as indicated on the attached certificate of correction form (SB44) (submitted in duplicate). There errors arose at the respective places in the application file as indicated below.**
- **Such errors arose through the fault of the Patent and Trademark Office, therefore patentee requests that the Certificate be issued at no cost.**
- Please note several errors appear to have been made printing the claims from the Applicant's reply to the office action dated June 2, 2005 (Ex parte Quayle) and also see the originally filed application.
- **Specifically**, in issued Claim 1, Col. 8, line 15, please replace the "p-well" with -- N-well—before "functioning". For support see the Applicant's reply to the office action dated June 2, 2005 (Ex parte Quayle), page 3, (claim 1) which correctly shows "N-well functioning" at this line. Also see the originally filed application. This appears to have been erroneously printed by the patent office.
- **Specifically**, in issued Claim 9, Col. 8, line 58, please change "grounded-sate" with --grounded-gate—before "nMOS". For support see the Applicant's reply to the office action dated June 2, 2005 (Ex parte Quayle), page 4, (claim 9) which correctly shows "grounded-gate" at this line. Also see the originally filed application. This appears to have been erroneously printed by the patent office.
- **Specifically**, in issued Claim 14, Col. 9, line 16, please add --pad-- after "first I/O". For support see the Applicant's reply to the office action dated June 2, 2005 (Ex parte Quayle), page 5, (claim 14) which correctly shows "first I/O pad" at this line. Also see the originally filed application. This appears to have been erroneously printed by the patent office.

- **Specifically**, in issued Claim 14, Col. 9, line 22, please replace “p-well” with --N-well-- after “first I/O”. For support see the Applicant’s reply to the office action dated June 2, 2005 (Ex parte Quayle), page 5 (claim 14) which correctly shows “first I/O pad” at this line. Also see the originally filed application. This appears to have been erroneously printed by the patent office.
- **Specifically**, in issued Claim 20, Col. 9, line 50, please replace “fanning” with --forming-- before “a RC network”. For support see the Applicant’s reply to the office action dated June 2, 2005 (Ex parte Quayle), page 6 (claim 20). Also see the originally filed application. This appears to have been erroneously printed by the patent office.
- **Specifically**, in issued Claim 26, Col. 10, line 24, please replace “p-well” with --N-well-- before “functioning”. For support see the Applicant’s reply to the office action dated June 2, 2005 (Ex parte Quayle), page 7 (claim 26). Also see the originally filed application. This appears to have been erroneously printed by the patent office.
- 
- **Specifically**, in issued Claim 33, Col. 11, line 4, please replace “p-well” with --N-well-- before “functioning”. For support see the Applicant’s reply to the office action dated June 2, 2005 (Ex parte Quayle), page 9 (claim 33). Also see the originally filed application. This appears to have been erroneously printed by the patent office.

Subject: Request for Certification of correction  
PATENT NO US 7,064,358 B2  
ISSUED Jun. 20, 2006  
Serial No. 10/743,596  
Attorney Docket: CS03-036

Page 4

file: cs03-036-request-CertCor-2006-10-19.doc

-----  
**CONCLUSION**

In conclusion, issuance of the certificate of correction is respectfully requested.

It is requested that the Examiner telephone the undersigned attorney at (215) 670-2455 should there be anyway that we could help to expedite issuance of the Certificate of Correction.

**Charge to Deposit Account**

The Commissioner is hereby authorized to apply any fees or credits in this case, which are not already covered by check or credit card, to Deposit Account No. 502018 referencing this attorney docket. The Commissioner is also authorized to charge any additional fee under 37 CFR §1.16 and 1.17 to this Deposit Account.

Respectfully submitted,

/William J. Stoffel REG # 39,390/

William J. Stoffel

Customer No. 30402

Stoffel Law Office  
1735 Market St - Ste A455  
Philadelphia, PA 19103-7502 USA  
Telephone: 215-670-2455  
Fax: 267-200-0730

Computer file info: cs03-036-request-CertCor-2006-10-19.doc

file size: 52224

Subject: Request for Certification of correction  
PATENT NO US 7,064,358 B2  
ISSUED Jun. 20, 2006  
Serial No. 10/743,596  
Attorney Docket: CS03-036

Page 5

file: cs03-036-request-CertCor-2006-10-19.doc  
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## Appendix

- **certificate of correction form (SB44) (submitted in duplicate)**
- Copy of pages 1 thru 12 of Applicant's reply to the office action dated June 2, 2005 (Ex parte Quayle).

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,064,358 B2  
APPLICATION NO.: 10/743,596  
ISSUE DATE : Jun. 20, 2006  
INVENTOR(S) : Manna, Indrajit et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In issued Claim 1, Col. 8, line 15, please replace the "p-well" with  
-- N-well—before "functioning".

In issued Claim 9, Col. 8, line 58, please change "grounded-sate" with --grounded-gate—before "nMOS".

In issued Claim 14, Col. 9, line 16, please add --pad-- after "first I/O".

In issued Claim 14, Col. 9, line 22, please replace "p-well" with  
--N-well-- after "first I/O".

In issued Claim 20, Col. 9, line 50, please replace "fanning" with  
--forming-- before "a RC network".

In issued Claim 26, Col. 10, line 24, please replace "p-well" with  
--N-well-- before "functioning".

In issued Claim 33, Col. 11, line 4, please replace "p-well" with  
--N-well-- before "functioning".

### MAILING ADDRESS OF SENDER (Please do not use customer number below):

Stoffel Law Office  
1735 Market St - Ste A455  
Philadelphia, PA 19103-7502 USA

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,064,358 B2  
APPLICATION NO.: 10/743,596  
ISSUE DATE : Jun. 20, 2006  
INVENTOR(S) : Manna, Indrajit et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In issued Claim 1, Col. 8, line 15, please replace the "p-well" with  
-- N-well--before "functioning".

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In issued Claim 33, Col. 11, line 4, please replace "p-well" with  
--N-well-- before "functioning".

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Stoffel Law Office  
1735 Market St - Ste A455  
Philadelphia, PA 19103-7502 USA

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

Docket CS03-036

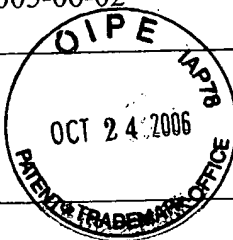
S/N 10/743,596

Response to Office action dated 2005-06-02

1 of 11

**FAX information**

Note : 11 total pages in this fax



To: Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

From: William J. Stoffel 1735 Market St - Ste A  
Reg no. 39,390 PMB 455  
Customer no. 30,402 Philadelphia, PA 19103 USA  
215-670-2455 w 267-200-0730 fax

Subject:

Docket CS03-036  
S/N 10/743,596  
Response to Office action dated 2005-06-02  
File date: 2003-12-22  
Inventor: Indrajit Manna  
Title: **TRIGGERED BACK-TO-BACK DIODES FOR ESD  
PROTECTION IN TRIPLE-WELL CMOS PROCESS**  
  
Group Art Unit: 2811  
Examiner: Owens, Douglas W

**RESPONSE TO OFFICE ACTION**

Dear Sirs:

This is in response to the Office action dated 06/02 /2005, please consider the following remarks:

**CERTIFICATE OF MAILING OR FACSIMILE TRANSMISSION**

I hereby certify that this correspondence is being :

☒ FAXED to the central facsimile number of patent and trademark office at the following number (703) 872-9306 or

☐ deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.

Signature William J. Stoffel Date 6/22/05  
William J. Stoffel Reg. No. 39,390 Customer number 30402



**This response to Office Action has the following sections:**

- **Amendments to the Claims** are reflected in the listing of claims that begin on the next page.
- **Remarks/Arguments** begin on the page following the amendments to the claims.

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listing, of claims in the application:

#### **Listing of claims:**

1. (CURRENTLY AMENDED) A ESD protection device comprising:
  - a) a n-doped region and a p-doped region in a p-well in a semiconductor structure; said n-doped region and said p-doped region are spaced;
  - b) a n-well and a deep n-well surrounding said p-well on the sides and bottom;
  - c) a first I/O pad connected to said n-doped region;
  - d) a trigger circuit connected to said first I/O pad and said p-doped region;
  - e) a second I/O pad connected to said n-well;
  - f) a parasitic bipolar transistor is comprised of the n-doped region functioning as a collector terminal, the P-well functioning as a base terminal, and the deep N-well functioning as the emitter terminal; whereby under an ESD condition, the p-well is charged positive using the trigger circuit and said parasitic bipolar transistor can be turned on.
2. (ORIGINAL) The ESD protection device of claim 1 which further comprises:
  - a first gate over said p-well between said n-doped region and said p-doped region; and
  - a second gate over said p-well between said p-doped region and said n-well.
3. (ORIGINAL) The ESD protection device of claim 1 which further comprises:
  - a first gate over said p-well between said n-doped region and said p-doped region; and
  - a second gate over said p-well between said p-doped region and said n-well;
  - said second I/O pad connected to said first gate and said second gate.
4. (ORIGINAL) The ESD protection device of claim 1 which further comprises said n-doped region and said p-doped region are separated by an isolation region.
5. (ORIGINAL) The ESD protection device of claim 1 wherein said trigger circuit comprises a chain of diodes.

6. (ORIGINAL) The ESD protection device of claim 1 wherein said trigger circuit comprises a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad.

7. (ORIGINAL) The ESD protection device of claim 1 wherein said trigger circuit comprises a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad; said RC network has a RC time constant about 10 times the duration of human body model ESD waveform.

8. (ORIGINAL) The ESD protection device of claim 1 wherein said trigger circuit comprises a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad; said RC network has a RC time constant between about 1.5 and 2 micro seconds.

9. (ORIGINAL) The ESD protection device of claim 1 wherein said trigger circuit comprises a grounded-gate nMOS transistor and a resistor connected to the grounded-gate nMOS transistor and to said second I/O pad.

10. (ORIGINAL) The ESD protection device of claim 1 which further includes a N-doped ring region laterally surrounding said p-doped region whereby said N-doped ring region and said deep n-well increase the resistance of the parasitic bipolar transistor thereby increasing the pinch off during an ESD event.

11. (ORIGINAL) The ESD protection device of claim 1 wherein said semiconductor structure is comprised of silicon.

12. (PREVIOUSLY PRESENTED) The ESD protection device of claim 1 which further includes contacts to said n-doped and said p-doped regions; said contacts are comprised of a silicide.

13. (ORIGINAL) The ESD protection device of claim 1 wherein said ESD protection device is further comprised of a second parasitic bipolar transistor.

14. (CURRENTLY AMENDED) A method of forming an ESD protection device comprising:

- a) forming a n-doped region and a p-doped region in a p-well in a semiconductor structure; said n-doped region and said p-doped region are spaced;
- b) forming a n-well and a deep n-well that surround said p-well on the sides and bottom;
- c) connecting electrically a first I/O pad to said n-doped region;
- d) connecting electrically a trigger circuit to said first I/O pad and said p-doped region;
- e) connecting electrically a second I/O pad to said n-well; whereby a parasitic bipolar transistor is comprised of the n-doped region functioning as a collector terminal, the P-well functioning as a base terminal, and the deep N-well functioning as the emitter terminal; whereby under an ESD condition, the p-well is charged positive using the trigger circuit and the parasitic bipolar transistor can be turned on.

15. (ORIGINAL) The method of claim 14 which further comprises;

forming a first gate over said p-well between said n-doped region and said p-doped region; and

forming a second gate over said p-well between said p-doped region and said n-well;

electrically connecting said first gate, said second gate and second I/O pad.

16. (ORIGINAL) The method of claim 14 which further comprises:

forming a first gate over said p-well between said n-doped region and said p-doped region; and

forming a second gate over said p-well between said p-doped region and said n-well.

17. (ORIGINAL) The method of claim 14 which further includes forming isolation regions separating said n-doped region and p-doped region.

18. (ORIGINAL) The method of claim 14 wherein said trigger circuit is formed by forming a chain of diodes.

19. (ORIGINAL) The method of claim 14 which further includes forming said trigger circuit by forming a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad.

20. (PREVIOUSLY PRESENTED) The method of claim 14 which further includes forming said trigger circuit by forming a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad; said RC network has a RC time constant about 10 times the duration of Human body model ESD waveform.

21. (ORIGINAL) The method of claim 14 which further includes forming said trigger circuit by forming a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad; said RC network has a RC time constant between about 1.5 and 2 micro seconds.

22. (ORIGINAL) The method of claim 14 which further includes forming said trigger circuit by forming a grounded-gate nMOS transistor and a resistor connected to the grounded-gate nMOS transistor and to the second I/O pad.

23. (ORIGINAL) The method of claim 14 which further includes forming a N-doped ring region laterally surrounding said p-doped region whereby said N-doped ring region and said deep n-well increase the resistance of the parasitic bipolar transistor thereby increasing the pinch off during an ESD event.

24. (ORIGINAL) The method of claim 14 wherein said semiconductor structures comprised of silicon.

25. (ORIGINAL) The method of claim 14 which further includes forming contacts comprised of a silicide to the n-doped regions and said p-doped regions.

26. (CURRENTLY AMENDED) A method for using an ESD protection device comprising the steps of:

(1) providing:

0

- a) a n-doped region and a p-doped region in a p-well in a semiconductor structure; said n-doped region and said p-doped region are spaced;
  - b) a n-well and a deep n-well surrounding said p-well on the sides and bottom;
  - c) a first I/O pad connected to said n-doped region;
  - d) a trigger circuit connected to said first I/O pad and said p-doped region;
  - e) a second I/O pad connected to said n-well;
  - f) a parasitic bipolar transistor is comprised of the n-doped region functioning as a collector terminal, the P-well functioning as a base terminal, and the deep N-well functioning as the emitter terminal;
- (2) charging said p-well using the trigger circuit under an ESD condition and turning on said parasitic bipolar transistor.

27. (ORIGINAL) The method of claim 26 which further comprises:

forming a first gate over said p-well between said n-doped region and said p-doped region; and

forming a second gate over said p-well between said p-doped region and said n-well.

28. (ORIGINAL) The method of claim 26 which further comprises;

forming a first gate over said p-well between said n-doped region and said p-doped region; and

forming a second gate over said p-well between said p-doped region and said n-well;

connecting said second I/O pad to said first gate and said second gate.

29. (ORIGINAL) The method of claim 26 wherein said trigger circuit is comprised of a chain of diodes.

30. (ORIGINAL) The method of claim 26 wherein said trigger circuit comprises a RC network comprised of a diode connected to a resistor and said p-doped region; said resistor connected to said second I/O pad.

31. (ORIGINAL) The method of claim 26 wherein said trigger circuit comprises a grounded-gate nMOS transistor and a resistor connected to the grounded-gate nMOS transistor and to said second I/O pad.

32. (ORIGINAL) The method of claim 26 which further includes forming a N-doped ring region laterally surrounding said p-doped region whereby said N-doped ring region and said deep n-well increase the resistance of the parasitic bipolar transistor thereby increasing the pinch off during an ESD event.

33. (CURRENTLY AMENDED) A method of using a ESD protection device comprising the steps of :

(1) providing:

- a) a n-doped region and a p-doped region in a p-well in a semiconductor structure; said n-doped region and said p-doped region are spaced;
- b) a n-well and a deep n-well surrounding said p-well on the sides and bottom;
- c) a first I/O pad connected to said n-doped region;
- d) a trigger circuit connected to said first I/O pad and said p-doped region;
- e) a second I/O pad connected to said n-well;
- f) a parasitic bipolar transistor is comprised of the n-doped region functioning as a collector terminal, the P-well functioning as a base terminal, and the deep N-well functioning as the emitter terminal; whereby under an ESD condition, the p-well is charged positive using the trigger circuit and said parasitic bipolar transistor can be turned on;
- g) a N-doped ring region laterally surrounding said p-doped region whereby said N-doped ring region and said deep n-well increase the resistance of the parasitic bipolar transistor thereby increasing the pinch off during an ESD event;

(2) reverse-biasing said N-doped ring region during an ESD event to increase the effective resistance seen by the injected current in the P-doped region by said trigger circuit into p-well.

### **REMARKS/ARGUMENTS**

Examiner Owens is thanked for the thorough Office Action.

#### **In the claims**

The claims are amended as discussed below. No new matter is added.

#### **Restriction**

Applicant gratefully acknowledges the withdrawal of the restriction requirement.

#### **Claim objections**

##### **Objection to Claim 3**

The objection to claim 3 is acknowledged. I could not find an instance of "scond" in the original patent application or the previous response to office action. The applicant intends to spell the word as "second". My copies of the previous office action and the application as originally filed show the correct spelling of "second" in claim 3. Possibly, the fax of the previous office action had defect over that word.

Applicant respectfully requests the examiner make an examiner amendment if a correction is required.

##### **Objections to claims 1 and 14, and 26 and 33**

Claims 1 and 14, and 26 and 33 are amended as kindly suggested by the examiner.

### **ALLOWABLE SUBJECT MATTER**



The allowance of claims 1-33 is gratefully acknowledged.

### **Pending claims**

It is believed that all the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper. and the amendment of any claim does not necessarily signify concession of the unpatentability of the claim prior to its amendment.

### **CONCLUSION**

In conclusion, issuance of the application is requested.

It is requested that the Examiner telephone the undersigned attorney at (215) 670-2455 should there be anyway that we could help to place this Application in condition for Allowance.

### **Charge to Deposit Account**

Docket CS03-036

S/N 10/743,596

Response to Office action dated 2005-06-02

referencing this attorney docket. The Commissioner is also authorized to charge any additional fee under 37 CFR §1.16 and 1.17 to this Deposit Account.

Respectfully submitted,

Date:

6/22/05

William J. Stoffel

William J. Stoffel Reg. No. 39,390  
215-670-2455

Customer number 30402

Stoffel Law Office  
1735 Market St - Ste A455  
Philadelphia, PA 19103-7502 USA  
Telephone: 215-670-2455  
Fax: 267-200-0730

\*\*\*\*\* END OF FAX - LAST PAGE \*\*\*\*\*

Computer file info: cs03-036-roa2-dated2005-06-03-ex-parte-quayle.doc file size: 64000